

Process for melting glas in a furnace having a roof-mounted, oxygen-fired auxiliary burner.

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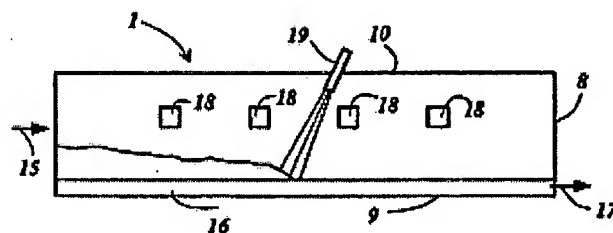
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US3592623
US3337324
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Abstract of EP0546238

Disclosed is process for melting solid glass forming ingredients in a regenerative or recuperative furnace having an upstream melting zone and a downstream fining zone comprising: a) introducing the solid glass forming ingredients into the upstream melting zone; and b) heating them so that an interface between them and the molten glass is formed; and c) providing heat sufficient to maintain the molten glass in the molten state through the downstream fining zone and also sufficient to melt the solid glass forming ingredients, wherein at least a part of the heat is provided by at least one oxygen-fuel burner located in the roof of the furnace, whose position is such that the tip of its flame is directed at the interface of solid glass forming ingredients and molten glass in an angle of 25 DEG to 90 DEG such that the melting rate is increased and the solid glass forming ingredients are substantially prevented from escaping from the upstream melting zone.



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